over the inordinate delay in sanctioning bonus/productivity linked bonus to them by its management;

(b) if so, what are the reasons for the delay; and

(c) by when a final decision is expected to be taken in the matter?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER (SHRI ARIF MOHD. KHAN): (a) to (c). The National Hydro Electric Power Corporation have formulated an incentive scheme linked to power generation and project completion and the same is under consideration of Government.

Petro-chemical refinery projects

2792. SHRI JAGDISH JANI: Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

(a) whether Government have taken any decision to take up some petro-chemical refinery projects during the Seventh Five year Plan;

(b) if so, which are the petro-chemical refineries proposed to be started during the above plan period;

(c) the cost of each of those projects; and

(d) the details thereof?

THE MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS (SHRI NAWAL KISHORE SHARMA): (a) to (d) The Government of India is exploring the possibility of setting up the Mangalore Refinery as a Joint Venture either as a 6 Million Tonnes Refinery or with an initial capacity of 3 Million Tonnes alongwith a Naphtha cracker which could meet the growing need of a petro-chemical industry in the Country.

Depending upon the product pattern, the cost will vary from Rs. 900 crores to Rs. 1200 crores.

Apart from the above, there is no other proposal to take up a Petro-chemical refinery Project during the seventh five Year Plan.

Power crisis in Orissa

2793. SHRI JAGADISH JANI: Will the Minister of ENERGY be pleased to state:

(a) whether Government are aware of the power crisis in Orissa;

(b) if so, the steps proposed to be taken to remove power crisis in the State;

(c) the major power projects proposed to be extended in Orissa as a step towards removing power crisis; and

(d) the details thereof?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER (SHRI ARIF MOHD. KHAN): (a) Yes. Sir.

(b) to (d). In order to increase power availability in the State, Orissa is being assisted by neighbouring States like Andhra Pradesh and Madhya Pradesh to the extent possible. As a long term measure, additional generating capacity of 483.5 MW is programmed to be commissioned during the Seventh Plan period.

In addition, Orissa would also get benefit of 31 MW from Chukha Hydel Project of Bhutan (4x84 MW) and share of 75 MW from the Farakka STPS, Stage-I (3×210 MW) when these units are commissioned in the Seventh Plan.

Besides, Central assistance is being provided to modernise and renovate the Talcher thermal power station.

2794. [Transferred to the 17th December, 1985.]

Electrification of villages in Allahabad Mirzapur and Varanasi

2795. SHRI SATYA PRAKASH MALAVIYA: Will the Minister of ENERGY be pleased to state:

(a) the number of villages in Allahabad, Mirzapur and Varanasi (district-wise) in Uttar Pradesh which have not been electrified so far;

(b) by when they are likely to be electrified; and

(c) the total amount likely to be spent in the electrification, district-wise?

THE MINISTER OF STATE IN THE DEPARTMENT OF POWER (SHRI ARIF MOHD. KHAN): (a) The number of villages not electrified in Allahabad, Mirzapur and Varanasi districts of Uttar Pradesh as on 31-10-1985 are as under:—

Allahabad	—1088
Mirzapur	—2148
Varanasi	—1552

(b) Subject to availability of funds the remaining villages are likely to be electrified in the Seventh and Eighth Five Year Plans.

(c) A plan outlay of Rs. 284.53 crores has been provided for Uttar Pradesh for rural electrification programme during Seventh Plan, which will cover village electrification in the districts of Allahabad, Mirzapur and Varanasi.

Generation of energy by non-conventional energy sources

2796. DR. LOKESH CHANDRA:
SHRI KAPIL VERMA:
SHRI P. N. SUKUL:

Will the Minister of ENERGY be pleased to state:

(a) the number of ongoing projects to tap non-conventional solar, wind, tidal, biomass and biogas energy sources in the villages; and

(b) the estimated KWH to be generated by non-conventional sources by the end of the Seventh Five Year Plan period?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): (a) Under the National Project on Bio-Gas Development, 1,50,000 family sized bio-gas plants are being installed this year. Under the project on improved chulhas 10 lakh such chulhas are being installed this year. 173 community type bio-gas plants are under various stages of installation in different parts of the country. Under the National wind mill Demonstration programme 500 wind pumps are being installed this year. 160 solar photovoltaic systems, 26 bio-mass energy projects and 6 solar thermal energy systems are under various stages of implementation in the rural areas. 28 Integrated Rural Renewable Energy System projects comprising a combination of various solar, wind, bio-energy systems at the village level are under installation in rural areas of the country.

(b) By the end of 7th Five Year Plan total annual energy generation from non-conventional energy sources is estimated to reach more than 1,000 million KWH per year. In addition from the installation of the improved chulhas more than 35 lakh tonnes of firewood will be saved annually at the end of the Seventh Plan.

Solar Power Plant

2797. DR. LOKESH CHANDRA:
SHRI KAPIL VERMA:
SHRI P. N. SUKUL:

Will the Minister of ENERGY be pleased to state:

(a) whether it is a fact that the Indian and Soviet scientists have devised a portable solar power plant capable of pumping water and generating electricity;

(b) whether it is also a fact that this solar plant of 500 watts has worked for thousand hours; and

(c) whether it has been decided to put the solar plant into commercial production?

THE MINISTER OF ENERGY (SHRI VASANT SATHE): (a) Yes, Sir.

(b) and (c) The operation and costs of the plant are being examined. The question of possible commercial production will be considered thereafter.